Appl. No. 09/650,029
Amdt. dated: April 14, 2004
Reply to Office action of January 15, 2004

Docket No. 62478-2100

Amendments to the Specification:

Please replace the paragraph beginning on page 4, line 14 and extending through page 5, line 5 with the following amended paragraph:

> The above object is fulfilled by a reception display apparatus for receiving data blocks which are repeatedly transmitted from a broadcasting station at regular intervals and displaying a screen image based on the received data blocks, each of the data blocks including a data section, and data to be displayed as the screen image being divided into a plurality of data sections, the reception display apparatus comprising: a reception means for receiving the data blocks; a data ~~judgement~~ judgment means for judging whether the data section in each received data block is normal; a storage means for storing every data section judged as normal by the data ~~judgement~~ judgment means without storing data sections judged as abnormal; a condition ~~judgement~~ judgment means for judging, before all data sections to be displayed as the screen image are stored in the storage means, whether a condition for displaying the screen image is satisfied; and a display means for displaying, when the condition ~~judgement~~ judgment means judges that the condition is satisfied, a part of the screen image using data sections currently stored in the storage means.

Please replace the paragraph beginning on page 5, line 14 and extending through line 21 with the following amended paragraph:

> In the above reception display apparatus, the data ~~judgement~~ judgment means may generate, when having judged that a data section is not normal, information indicating that the data section is abnormal, and stores the information into the storage means, and the display means displays either a blank or a notice indicating abnormality of the data section, at a position in the screen image where the data section indicated as abnormal by the information stored in the storage means should be displayed.

Please replace the paragraph beginning on page 6, line 19 and extending through line 24 with the following amended paragraph:

> In the above reception display apparatus, the condition for displaying the screen image used in the ~~judgement~~ judgment by the condition ~~judgement~~ judgment means may be that either (1) an instruction to display has been received from a user, or (2) the reception means has received data blocks including all data sections to be displayed as the screen image.

Please replace the paragraph beginning on page 7, line 6 and extending through page 8, line 6 with the following amended paragraph:

> The above object is also fulfilled by a reception display apparatus for receiving data blocks which are repeatedly transmitted from a broadcasting station at regular intervals and displaying a screen image based on the received data blocks, each of the data blocks including (1) a data section constituting original data to be displayed as the screen image and (2) protocol information indicating a position of the data section in the original data, the original data being divided into a plurality of data sections, the reception display apparatus comprising: a reception means for receiving the data blocks; a data ~~judgement~~ judgment means for judging whether the data section in each received data block is normal; a storage means for storing (1) the protocol information included in each data block received by the reception means and (2) data sections judged as normal by the data judgment means, the storage means not storing data sections judged as abnormal, and each piece of stored protocol information showing correspondence to a data section from a same data block; a condition ~~judgement~~ judgment means for judging, before all data sections to be displayed as the screen image are stored in the storage means, whether all pieces of protocol information for the screen image have been stored in the storage means; and a display means for, when the condition ~~judgement~~ judgment means judges that all pieces of protocol information for the screen image have been stored in the storage means, displaying a part of the screen image using the data sections currently

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stored in the storage means and all pieces of protocol information stored in the storage means.

Please replace the paragraph beginning on page 8, line 12 and extending through line 17 with the following amended paragraph:

> In the above reception display apparatus, the data ~~judgement~~ judgment means may judge whether the protocol information in each received data block is normal and then judges for each data block that includes protocol information judged as normal whether the data section in the data block is normal, and the storage means stores every piece of protocol information judged as normal.

Please replace the paragraph beginning on page 10, line 13 and extending through page 11, line 21 with the following amended paragraph:

> In the above reception display apparatus, the received data blocks may belong to a lowest layer of a plurality of layers, the data blocks in the lowest layer being generated through the plurality of layers from the original data in a highest layer so that each data block in each layer includes (1) a data section which constitutes a data block in a next-higher layer and (2) a piece of protocol information which indicates a position of the data section included in the same data block, the highest layer not including protocol information but consisting of the original data which corresponds to the screen image, the receiving means receives each data block in the lowest layer, the data ~~judgement~~ judgment means judges whether the data section in each received data block is normal, the storage means stores (1) the protocol information included in each data block received by the reception means and (2) every data section judged as normal by the data ~~judgement~~ judgment means, the condition ~~judgement~~ judgment means judges, before all data sections constituting a data block in a second-lowest layer are stored in the storage means, whether all pieces of protocol information necessary for the data block in the second-lowest layer have been stored in the storage means, when having judged so, reconstructs the data block in the second-lowest layer by using data sections in the lowest layer currently stored in the storage means and all corresponding pieces of protocol

information in the lowest layer stored in the storage means, repeats such a reconstruction of a data block until the condition ~~judgement~~ judgment means judges, before all data sections constituting the original data in the highest layer are reconstructed, that all pieces of protocol information necessary for reconstructing the original data in the highest layer have been prepared, and at this point of time, the display means displays a part of the screen image using the data sections in the second-highest layer having been reconstructed so far and the all pieces of protocol information in the second-highest layer necessary for reconstructing the original data in the highest layer.

Please replace the paragraph beginning on page 11, line 25 and extending through page 12, line 16 with the following amended paragraph:

The above object is fulfilled by a reception display method for receiving data blocks which are repeatedly transmitted from a broadcasting station at regular intervals and displaying a screen image based on the received data blocks, each of the data blocks including a data section, and data to be displayed as the screen image being divided into a plurality of data sections, the reception display method comprising: a reception step for receiving the data blocks; a data ~~judgement~~ judgment step for judging whether the data section in each received data block is normal; a storage step for storing every data section judged as normal in the data ~~judgement~~ judgment step without storing data sections judged as abnormal; a condition ~~judgement~~ judgment step for judging, before all data sections to be displayed as the screen image are stored, whether a condition for displaying the screen image is satisfied; and a display step for, when the condition ~~judgement~~ judgment step judges that the condition is satisfied, displaying a part of the screen image using currently stored data sections.

Please replace the paragraph beginning on page 12, line 17 and extending through line 24 with the following amended paragraph:

In the above reception display method, the data ~~judgement~~ judgment step may generate, when having judged that a data section is not normal, information indicating that the data section is abnormal, and stores the information, and the display step displays either a

blank or a notice indicating abnormality of the data section, at a position in the screen image where the data section indicated as abnormal by the stored information should be displayed.

Please replace the paragraph beginning on page 12, line 25 and extending through page 13, line 24 with the following amended paragraph:

The above object is also fulfilled by a reception display method for receiving data blocks which are repeatedly transmitted from a broadcasting station at regular intervals and displaying a screen image based on the received data blocks, each of the data blocks including (1) a data section constituting original data to be displayed as the screen image and (2) protocol information indicating a position of the data section in the original data, the original data being divided into a plurality of data sections, the reception display method comprising: a reception step for receiving the data blocks; a data ~~judgement~~ judgment step for judging whether the data section in each received data block is normal; a storage step for storing (1) the protocol information included in each data block received in the reception step and (2) data sections judged as normal in the data ~~judgement~~ judgment step, the storage step not storing data sections judged as abnormal, and each piece of stored protocol information showing correspondence to a data section from a same data block; a condition ~~judgement~~ judgment step for judging, before all data sections to be displayed as the screen image are stored, whether all pieces of protocol information for the screen image have been stored; and a display step for, when the condition ~~judgement~~ judgment step judges that all pieces of protocol information for the screen image have been stored, displaying a part of the screen image using the currently stored data sections and all pieces of stored protocol information.

Please replace the paragraph beginning on page 13, line 25 and extending through page 14, line 17 with the following amended paragraph:

The above object is also fulfilled by a computer-readable record medium recording a reception display program for receiving data blocks which are repeatedly transmitted from a broadcasting station at regular intervals and displaying a screen image based on

the received data blocks, each of the data blocks including a data section, and data to be displayed as the screen image being divided into a plurality of data sections, the reception display program causing a computer to execute: a reception step for receiving the data blocks; a data ~~judgement~~ judgment step for judging whether the data section in each received data block is normal; a storage step for storing every data section judged as normal in the data ~~judgement~~ judgment step without storing data sections judged as abnormal; a condition ~~judgement~~ judgment step for judging, before all data sections to be displayed as the screen image are stored, whether a condition for displaying the screen image is satisfied; and a display step for, when the condition ~~judgement~~ judgment step judges that the condition is satisfied, displaying a part of the screen image using currently stored data sections.

Please replace the paragraph beginning on page 14, line 18 and extending through line 25 with the following amended paragraph:

In the above computer-readable record medium, the data ~~judgement~~ judgment step may generate, when having judged that a data section is not normal, information indicating that the data section is abnormal, and stores the information, and the display step displays either a blank or a notice indicating abnormality of the data section, at a position in the screen image where the data section indicated as abnormal by the stored information should be displayed.

Please replace the paragraph beginning on page 15, line 1 and extending through page 16, line 1 with the following amended paragraph:

The above object is also fulfilled by a computer-readable record medium recording a reception display program for receiving data blocks which are repeatedly transmitted from a broadcasting station at regular intervals and displaying a screen image based on the received data blocks, each of the data blocks including (1) a data section constituting original data to be displayed as the screen image and (2) protocol information indicating a position of the data section in the original data, the original data being divided into a plurality of data sections, the reception display program causing a computer to execute: a

reception step for receiving the data blocks; a data ~~judgement~~ judgment step for judging

whether the data section in each received data block is normal; a storage step for storing

(1) the protocol information included in each data block received in the reception step

and (2) data sections judged as normal in the data ~~judgement~~ judgment step, the storage

step not storing data sections judged as abnormal, and each piece of stored protocol

information showing correspondence to a data section from a same data block; a

condition ~~judgement~~ judgment step for judging, before all data sections to be displayed as

the screen image are stored, whether all pieces of protocol information for the screen

image have been stored; and a display step for, when the condition ~~judgement~~ judgment

step judges that all pieces of protocol information for the screen image have been stored,

displaying a part of the screen image using the currently stored data sections and all

pieces of stored protocol information.

Please replace the paragraph beginning on page 64, line 7 and extending through line 15 with the
following amended paragraph:

Upon a receipt of an input instruction from the user via the input apparatus 3580, the

broadcast data viewer 150 reads out the broadcast data from the broadcast data

management system 130 and displays the read data on the display apparatus 3590. As

shown in FIG. 35, the broadcast data viewer 150 includes a reception file information

analysis unit 3501, a file display control unit 3502, an input ~~judgement~~ judgment unit

3503, a file read request unit 3504, a file content analysis unit 3505, a display information

storage unit 3506, and a display request unit 3507.

Please replace the paragraph beginning on page 64, line 21 and extending through page 65, line 3
with the following amended paragraph:

The input ~~judgement~~ judgment unit 3503, when having received an input instruction from

the user via the input apparatus 3580, judges based on previously set conditions, whether

to display as specified in the input instruction. When having judged so, the input

~~judgement~~ judgment unit 3503 instructs the file display control unit 3502 to display so by

sending information related to the display to the file display control unit 3502, such as the name of the file to be displayed and the display position.

Please replace the paragraph of the Abstract beginning on page , line 81 and extending through 17 with the following amended paragraph:

A reception display apparatus for receiving data blocks repeatedly transmitted from a broadcasting station at regular intervals and displaying a screen image based on the received data blocks. Each of the data blocks including a data section. Data to be displayed as the screen image is divided into a plurality of data sections. The reception display apparatus comprises: a reception means for receiving the data blocks; a data ~~judgement~~ judgment means for judging whether the data section in each received data block is normal; a storage means for storing every data section judged as normal by the data ~~judgement~~ judgment means without storing data sections judged as abnormal; a condition ~~judgement~~ judgment means for judging, before all data sections to be displayed as the screen image are stored in the storage means, whether a condition for displaying the screen image is satisfied; and a display means for displaying, when the condition ~~judgement~~ judgment means judges that the condition is satisfied, a part of the screen image using data sections currently stored in the storage means.

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